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## II. <u>Listing of Claims</u>

(Withdrawn): A transfer case magnetic operator comprising:

a primary output shaft;

a drive sprocket rotatably disposed on said primary output shaft;

a permanent magnet actuator having a magnet array disposed for rotation

about said primary output shaft and at least one induction ring disposed adjacent

said magnet array and rotatable about said primary output shaft; and

a clutch operably disposed between said primary output shaft and said drive

sprocket and adjacent said permanent magnet actuator and acted upon by said

actuator.

2. (Withdrawn): The transfer case magnetic operator of claim 1 further

including a secondary output shaft, a driven chain sprocket coupled to said

secondary output shaft, and a drive chain engaging said chain sprockets.

3. (Withdrawn): The transfer case magnetic operator of claim 1 wherein

said clutch is a friction clutch pack.

4. (Withdrawn): The transfer case magnetic operator of claim 3 further

including a ball ramp operator.

5. (Withdrawn): The transfer case magnetic operator of claim 1 wherein

said clutch is a dog clutch and said operator functions as a synchronizer.

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6. (Withdrawn): The transfer case magnetic operator of claim 1 wherein said magnet array includes a plurality of magnets arranged end to end with alternating poles.

7. (Withdrawn): The transfer case magnetic operator of claim 1 further including a planetary gear speed reduction assembly for selectively driving said primary output shaft.

Withdrawn): A magnetically actuated clutch comprising, in combination.

an input member,

an output member,

a first plate coupled to said input member for rotation therewith, said first plate including a first plurality of curved, ramped recesses,

a second plate disposed adjacent said first circular plate and having a second plurality of curved, ramped recesses facing said first plurality of curved, ramped recesses,

a plurality of load transferring members disposed in said opposed pluralities of recesses.

a friction clutch pack disposed adjacent said first plate containing a first plurality of clutch plates coupled to said input member for rotation therewith and a second plurality of clutch plates interleaved with said first plurality of clutch plates and operably coupled to said output member for rotation therewith,

at least one permanent magnet coupled to said second plate for rotation therewith and.

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at least one induction member disposed adjacent said permanent magnet and

coupled to said output member for rotation therewith.

9. (Withdrawn): The magnetically actuated clutch of claim 8 further

including a transfer case having primary and secondary outputs and wherein said

input member is coupled to said primary output and said output member is coupled

to said secondary output.

10. (Withdrawn): The magnetically actuated clutch of claim 8 having a

plurality of permanent magnets arranged end to end and coupled to said second

plate.

11. (Withdrawn): The magnetically actuated clutch of claim 8 wherein said

first plate is circular and splined to said input member.

12. (Withdrawn): The magnetically actuated clutch of claim 8 wherein said

second plate is circular and is restrained on one side by a thrust bearing.

13. (Withdrawn): The magnetically actuated clutch of claim 8 further

including an apply plate disposed between said first plate and said friction clutch

pack.

14: (Withdrawn): The magnetically actuated clutch of claim 8 further

including a spring stack disposed adjacent said first plate.

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15. (Currently Amended): A synchronizer for facilitating engagement of rotatable members comprising, in combination,

a first rotatable member having axially extending engageable teeth,

a second rotatable member disposed adjacent said first rotatable member and having axially extending engageable teeth,

a clutch collar <u>having teeth</u> engaging said engageable eeth on said first member and disposed for axial motion therealong, said axial motion achieving engagement <u>of said teeth</u> with said engageable leeth on said second member,

a <u>plurality of</u> permanent <u>magnets</u> coupled to said second member for rotation therewith, and

an induction member disposed adjacent said permanent magnet magnets and coupled to said clutch collar for rotation therewith

- 16. (Currently Amended): The synchronizer for facilitating engagement of rotatable members of claim 15 further including a transfer case having primary and secondary outputs and wherein said first rotatable member is coupled to said primary secondary output and said second rotatable member is coupled to said secondary primary output.
- 17. (Currently Amended): The synchronizer for facilitating engagement of rotatable members of claim 15 having a wherein said plurality of permanent magnets are arranged end to end and coupled to said second rotatable member.

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18. (Currently Amended): The synchronizer for facilitating engagement of rotatable members of claim 15 wherein said clutch collar is spring biased toward said second member.

19. (Currently Amended): The synchronizer for facilitating engagement of rotatable members of claim 15 wherein aid said clutch collar is spring blased toward said second member and further including a bi-directionally translatable shift fork engaging said clutch collar.

20. (Currently Amended): The synchronizer for facilitating engagement of rotatable members of claim 15 wherein said second rotatable member is splined to an a primary output shaft.

21. (Currently Amended): A synchronizer and clutch for achieving engagement of rotatable members comprising, in combination,

a first rotatable member disposed on an axis and having teeth,

a second rotatable member disposed on said axis adjacent said first rotatable member and having teeth,

a clutch collar engaging and driven by said teeth on saic first member and disposed for motion along said axis and engagement with said teeth on said second <u>rotatable</u> member,

a <u>at least one</u> permanent magnet coupled to said second rotatable member for rotation therewith, and

an induction member disposed adjacent said permanent magnet and operably coupled to said first <u>rotatable</u> member for rotation therewith.

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22. (Currently Amended): The synchronizer and clutch for achieving engagement of rotatable members of claim 15 further including a transfer case having primary and secondary outputs and wherein said first rotatable member is coupled to said primary secondary output and said second rotatable member is coupled to said secondary primary output.

23. (Previously Presented): The synchronizer and clutch for achieving engagement of rotatable members of claim 15 having a plurality of permanent magnets arranged end to end and coupled to said second rotatable member.

24. (Currently Amended): The synchronizer and clutch for achieving engagement of rotatable members of claim 15 further including a compression spring for biasing said clutch collar toward said second member.

25. (Previously Presented): The synchronizer and clutch for achieving engagement of rotatable members of claim 15 wherein said clutch collar is spring biased and further including a bi-directionally translatable shift fork.